

ABSTRACT OF THE DISCLOSURE

It is an object of the invention to provide a PWM inverter control method capable of causing a reduction in a noise and energy saving to be consistent with each other by the reduction in a noise and the limit of the number of switching operations.

The invention provides a 2-level PWM inverter control method, in which switching of switching units connected in series is limited by setting the number of switching operations and a timing to output an optional voltage in order not to converge a frequency component of a noise caused by the switching and setting a lower limit to the number of switching operations in order to prevent the number of switching operations from being excessively decreased in that case when an operation frequency of an inverter is low, and increasing the number of switching operations and a set value of the timing in a constant ratio to the operation frequency and setting an upper limit to the number of switching operations in such a manner that the number of switching operations does not exceed a certain set value when the operation frequency of the inverter is increased.